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non blocking transaction lock*

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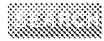
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Names   ◆ Ravi Rajwar, Maurice Herlihy, Konrad Lai
Institutions   June 2005   **ISCA '05**: Proceedings of the 32nd annual international symp
Authors   **Publisher:** ACM
Reviewers   Full text available: 📄 Pdf (199.77 KB)   Additional Information: full citation, abstra

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Publishers   Also published in:
                                 May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2

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Conferences   **2** McRT-Malloc: a scalable transactional memory allocator
Sponsors   ◆ Richard L. Hudson, Bratin Saha, Ali-Reza Adl-Tabatabai, Benjamin C. Hertz
Events   June 2006   **ISMM '06**: Proceedings of the 5th international symposium o⸜
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                             3 Analysis of locking behavior in three real database systems
                             Vigyan Singhal, Alan Jay Smith
                             February 1997 **The VLDB Journal — The International Journal on Very**
                             Publisher: Springer-Verlag New York, Inc.
                             Full text available: 📄 Pdf (328.18 KB)   Additional Information: full citation, abstra

                             Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 56, Downloa

                                  Concurrency control is essential to the correct functioning of a database
                                  results. For this reason, and because concurrency control is a well-form
                                  enormous body of literature ...

Keywords: Concurrency control, Trace-driven simulation, Workload cha

4 The OpenTM Transactional Application Programming Interface
Woongki Baek, Chi Cao Minh, Martin Trautmann, Christos Kozyrakis, Kunle
September 2007 **PACT '07: Proceedings of the 16th International Con**
Compilation Techniques (PACT 2007) - Volume 00 , V
Publisher: IEEE Computer Society
Full text available: Pdf (264.87 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 65, Downloa

Transactional Memory (TM) simplifies parallel programming by supportin
identified tasks. To date, TM programming has required the use of librar
scalable performance with code ...

5 Two models of concurrent objects
O. M. Nierstrasz
April 1989   Proceedings of the 1988 ACM SIGPLAN workshop on Object-ba
Publisher: ACM
Full text available: Pdf (256.25 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 40, Downloa

We propose two models of concurrent objects that address, respectively
object-oriented programming languages. The first is a conceptual mode
languages for concurrent and ...

Also published in:
April 1989 **SIGPLAN Notices** Volume 24 Issue 4

6 `PRABHA`—a distributed concurrency control algorithm
Albert Burger, Vijay Kumar
January 1990 **CSC '90:** Proceedings of the 1990 ACM annual conference on
Publisher: ACM Request Permissions
Full text available: Pdf (657.36 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 10, Downloa

We propose a non-preemptive, deadlock free concurrency control mech
The algorithm uses a combination of transaction blocking and roll-back
locking mechanisms presented in the ...

7 Non-blocking timeout in scalable queue-based spin locks
Michael L. Scott
July 2002   **PODC '02:** Proceedings of the twenty-first annual symposium
Publisher: ACM Request Permissions
Full text available: Pdf (999.45 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 34, Downloa

Queue-based spin locks allow programs with busy-wait synchronization
without fear of starvation or performance-destroying contention. Timeou
abandon its attempt to acquire ...

Keywords: scalability, spin locks, synchronization, timeout

8 Supporting nested transactional memory in logTM

Michelle J. Moravan, Jayaram Bobba, Kevin E. Moore, Luke Yen, Mark D. Hi
Wood

November 2006   **ASPLOS-XII:** Proceedings of the 12th international confer
programming languages and operating systems

Publisher: ACM Request Permissions

Full text available: Pdf (239.03 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 105,   Downl

Nested transactional memory (TM) facilitates software composition by le
either knowing whether the other uses transactions. **Closed nested tra**
transaction until the toplevel ...

Keywords: logTM, nesting, transactional memory

Also published in:
October 2006   **SIGOPS Operating Systems Review**   Volume 40 Issue 5
October 2006   **SIGARCH Computer Architecture News** Volume 34 Issue 5
November 2006 **SIGPLAN Notices**   Volume 41 Issue 11

9 Transactions with isolation and cooperation

Yannis Smaragdakis, Anthony Kay, Reimer Behrends, Michal Young

October 2007   **OOPSLA '07:** Proceedings of the 22nd annual ACM SIGPLAN
programming systems and applications

Publisher: ACM Request Permissions

Full text available: Pdf (252.95 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 152,   Downl

We present the TIC (Transactions with Isolation and Cooperation) mode
to standard transactional memory the ability for a transaction to observ
points. This allows transactions ...

Keywords: TIC, nested transactions, open-nesting, punctuation, transa

Also published in:
October 2007 **SIGPLAN Notices** Volume 42 Issue 10

10 Approaches to fault-tolerant and transactional mobile agent executio

Stefan Pleisch, André Schiper

September 2004   **Computing Surveys (CSUR)** , Volume 36 Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (946.94 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 37,   Downloads (12 Months): 344,   Downl

Over the past years, mobile agent technology has attracted considerabl

literature has been published. To further develop mobile agent technolo
tolerance and transaction support ...

Keywords: ACID, Byzantine failures, agreement problem, asynchronou
tolerance, malicious places, mobile agents, replication, security, transac

11 Split hardware transactions: true nesting of transactions using best-e
Yossi Lev, Jan-Willem Maessen
February 2008 **PPoPP '08:** Proceedings of the 13th ACM SIGPLAN Symposi
programming
Publisher: ACM Request Permissions
Full text available: Pdf (384.30 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 83, Downloa

Transactional Memory (TM) is on its way to becoming the programming
concurrent, and scalable programs. Hardware TM (HTM) implementation
than pure software TM (STM); however, ...

Keywords: atomicity, nesting, transactional memory

12 Maximum benefit from a minimal HTM
Owen S. Hofmann, Christopher J. Rossbach, Emmett Witchel
February 2009 **ASPLOS '09:** Proceeding of the 14th international conferenc
programming languages and operating systems
Publisher: ACM Request Permissions
Full text available: Pdf (457.43 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 167, Downl

A minimal, bounded hardware transactional memory implementation si(
performance when used in an operating system kernel. We add HTM to
grained synchronization structure. The ...

Keywords: hardware transactional memory

Also published in:
February 2009 **SIGPLAN Notices** Volume 44 Issue 3

13 Deadlock detection in distributed database systems: a new algorithm
analysis
Natalija Krivokapić, Alfons Kemper, Ehud Gudes
October 1999 **The VLDB Journal — The International Journal on Very**
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (289.96 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 134, Downl

This paper attempts a comprehensive study of deadlock detection in dis
predominant deadlock models in these systems and the four different di
are discussed. Afterwards, a ...

Keywords: Comparative performance analysis, Deadlock detection, Dis
study

14 A new approach to developing and implementing eager database re|
Bettina Kemme, Gustavo Alonso
September 2000 **Transactions on Database Systems (TODS)** , Volume 25
Publisher: ACM Request Permissions
Full text available: Pdf (449.43 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 235, Downl

Database replication is traditionally seen as a way to increase the availa
databases. Although a large number of protocols providing data consiste
proposed, few of these ideas have ...

Keywords: database replication, fault-tolerance, group communication
replica control, total error multicast

15 Maintaining consistency in a failure-prone P2P database network du
Md Mehedi Masud, Iluju Kiringa
March 2008 **DaMaP '08:** Proceedings of the 2008 international workshop
systems
Publisher: ACM
Full text available: Pdf (751.39 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 66, Downloa

A peer database network consists of peers in which each peer has its ov
(LDBS). In a peer database network, the integration of sources is perfor
peer shares its local database information ...

16 Dependence-aware transactional memory for increased concurrency
Hany E. Ramadan, Christopher J. Rossbach, Emmett Witchel
November 2008 **MICRO '08:** Proceedings of the 2008 41st IEEE/ACM Intern
Publisher: IEEE Computer Society
Full text available: Pdf (529.01 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 72, Downloa

Transactional memory (TM) is a promising paradigm for helping prograr
core platforms. Though they perform well under low contention, hardwa
performing well under high contention, ...

17 Priority assignment in real-time active databases
Rajendran M. Sivasankaran, John A. Stankovic, Don Towsley, Bhaskar Puri
January 1996 **The VLDB Journal — The International Journal on Very**
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (634.63 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 37, Downloa

Active databases and real-time databases have been important areas of

recognized that many benefits can be gained by integrating real-time ar
However, not much work has been done ...

Keywords: Active databases - Coupling mode - Deadlines - ECA - Prior

18 Tolerating byzantine faults in transaction processing systems using c
Ben Vandiver, Hari Balakrishnan, Barbara Liskov, Sam Madden
October 2007 **SOSP '07**: Proceedings of twenty-first ACM SIGOPS symposiu
Publisher: ACM Request Permissions
Full text available: Pdf (390.75 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 139, Downl

This paper describes the design, implementation, and evaluation of arep
faults in transaction processing database systems. The scheme compare
multiple replicas which are unmodified, ...

Keywords: byzantine fault tolerance, databases, state machine replica

Also published in:
October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

19 Performance modeling of nested transactions in database systems
Hossam S. Hassanein, Mohamed E. El-Sharkawi
November 2000 **CASCON '00**: Proceedings of the 2000 conference of the C
                Collaborative research
Publisher: IBM Press
Full text available: Pdf (148.66 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 49, Downlo

The nested transaction model was introduced to satisfy the requiremenl
Moreover, it is currently the basic transaction model for new databases
and objectrelational databases. ...

Keywords: nested transactions, performance evaluation, simulation, tv

20 User-level transactional programming in Haskell
Peter Thiemann
September 2006 **Haskell '06**: Proceedings of the 2006 ACM SIGPLAN work;
Publisher: ACM Request Permissions
Full text available: Pdf (212.38 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 100, Downlo

Correct handling of concurrently accessed external resources is a demai
standard approaches rely on database transactions or concurrency mecl
two such resources, global variables and ...

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